

=> d his ful

FILE 'LREGISTRY' ENTERED AT 07:26:49 ON 10 SEP 2008
ACT CAM303/A

L1 STR
L2 SCR 2043
L3 SCR 1993
L4 SCR 1700
L5 QUE ABB=ON PLU=ON L1 AND L2 AND L3 AND L4

FILE 'REGISTRY' ENTERED AT 07:27:40 ON 10 SEP 2008
ACT CAM303/A

L6 STR
L7 SCR 2043
L8 SCR 1993
L9 SCR 1700
L10 28792 SEA SSS FUL L6 AND L7 AND L8 AND L9

ACT CAM303A/A

L11 STR
L12 SCR 2043
L13 SCR 1993
L14 SCR 1700
L15 (28792)SEA SSS FUL L11 AND L12 AND L13 AND L14
L16 STR
L17 446 SEA SUB=L15 SSS FUL L16

ACT CAM303B/A

L18 STR
L19 SCR 2043
L20 SCR 1993
L21 SCR 1700
L22 (28792)SEA SSS FUL L18 AND L19 AND L20 AND L21
L23 STR
L24 (15)SEA SUB=L22 SSS FUL L23
L25 (9)SEA ABB=ON PLU=ON L24 AND (C12H12N2O OR C6H8N2 OR
C13H14N2 OR C12H12N2O OR C12H12N2)
L26 (7)SEA ABB=ON PLU=ON L25 NOT SI/ELS

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L27 (      3)SEA ABB=ON  PLU=ON  L26 NOT (C17H6O9 OR C17H16O4 OR
          C12H12N2O)
L28 (      4)SEA ABB=ON  PLU=ON  L26 NOT L27
L29 (      2)SEA ABB=ON  PLU=ON  L28 AND "(C12H12N2O.C10H2O8)X"/MF
L30 (      1)SEA ABB=ON  PLU=ON  L29 NOT OXOCIN
L31      4 SEA ABB=ON  PLU=ON  L27 OR L30

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ACT CAM303C/A
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L32      STR
L33      STR
L34      SCR 2043
L35      SCR 1993
L36      SCR 1700
L37 (    28792)SEA SSS FUL L33 AND L34 AND L35 AND L36
L38      STR
L39 (    446)SEA SUB=L37 SSS FUL L38
L40      76 SEA SUB=L39 SSS FUL L32

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ACT CAM303D/A
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L41      STR
L42      STR
L43      SCR 2043
L44      SCR 1993
L45      SCR 1700
L46 (    28792)SEA SSS FUL L42 AND L43 AND L44 AND L45
L47      STR
L48 (    446)SEA SUB=L46 SSS FUL L47
L49 (    76)SEA SUB=L48 SSS FUL L41
L50      41 SEA ABB=ON  PLU=ON  L49 NOT (C6H16N2 OR C17H6O7 OR
          C8H12N2O2 OR C16H6O6 OR C6H10N4 OR C8H6O4 OR C7H7NO3 OR
          C7H5NO4)

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FILE 'LREGISTRY' ENTERED AT 07:55:43 ON 10 SEP 2008

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L51      STR

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FILE 'REGISTRY' ENTERED AT 08:07:29 ON 10 SEP 2008

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ACT CAM303D/A
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L52      STR
L53      STR
L54      SCR 2043
L55      SCR 1993
L56      SCR 1700

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L57 (      28792)SEA SSS FUL L53 AND L54 AND L55 AND L56
L58          STR
L59 (      446)SEA SUB=L57 SSS FUL L58
L60 (      76)SEA SUB=L59 SSS FUL L52
L61      41 SEA ABB=ON  PLU=ON  L60 NOT (C6H16N2 OR C17H6O7 OR
          C8H12N2O2 OR C16H6O6 OR C6H10N4 OR C8H6O4 OR C7H7NO3 OR
          C7H5NO4)
          -----
          ACT CAM303C/A
          -----
L62          STR
L63          STR
L64          SCR 2043
L65          SCR 1993
L66          SCR 1700
L67 (      28792)SEA SSS FUL L63 AND L64 AND L65 AND L66
L68          STR
L69 (      446)SEA SUB=L67 SSS FUL L68
L70      76 SEA SUB=L69 SSS FUL L62
          -----
          ACT CAM303B/A
          -----
L71          STR
L72          SCR 2043
L73          SCR 1993
L74          SCR 1700
L75 (      28792)SEA SSS FUL L71 AND L72 AND L73 AND L74
L76          STR
L77 (      15)SEA SUB=L75 SSS FUL L76
L78 (      9)SEA ABB=ON  PLU=ON  L77 AND (C12H12N2O OR C6H8N2 OR
          C13H14N2 OR C12H12N2O OR C12H12N2)
L79 (      7)SEA ABB=ON  PLU=ON  L78 NOT SI/ELS
L80 (      3)SEA ABB=ON  PLU=ON  L79 NOT (C17H6O9 OR C17H16O4 OR
          C12H12N2O)
L81 (      4)SEA ABB=ON  PLU=ON  L79 NOT L80
L82 (      2)SEA ABB=ON  PLU=ON  L81 AND "(C12H12N2O.C10H2O8)X"/MF
L83 (      1)SEA ABB=ON  PLU=ON  L82 NOT OXOCIN
L84      4 SEA ABB=ON  PLU=ON  L80 OR L83
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L85      8 SEA SUB=L17 SSS SAM L51

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FILE 'REGISTRY' ENTERED AT 08:54:25 ON 10 SEP 2008

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L87      11 SEA SUB=L17 SSS SAM L86
          D SCA
L88      221 SEA SUB=L17 SSS FUL L86

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SAV TEMP L88 CAM303E/A

L89 30 SEA ABB=ON PLU=ON L88 AND 2/NC
D SCA

L90 21 SEA ABB=ON PLU=ON L89 NOT (C18H12F12N2O3 OR C19H18N2O
OR C15H16N2O3 OR C18H28N2O3SI2 OR C12H14O6 OR C14H16N2O2S
OR C13H12N2O OR C20H14O6)

L91 9 SEA ABB=ON PLU=ON L89 NOT L90
D BROWSE

L92 68 SEA ABB=ON PLU=ON L88 AND 3/NC
D SCA L92

L93 68 SEA ABB=ON PLU=ON L92 AND (C8H6O4 OR C17H10F6O4 OR
C8H6O5 OR C12H12N2S OR C14H12N2S OR C14H10O5 OR C12H4F8N2
OR C8H2F4O4)

L94 68 SEA ABB=ON PLU=ON L92 AND (C17H10F6O4 OR C8H6O5 OR
C12H12N2S OR C14H12N2S OR C14H10O5 OR C12H4F8N2 OR
C8H2F4O4)

L95 8 SEA ABB=ON PLU=ON L92 AND (C17H10F6O4 OR C12H12N2S OR
C14H12N2S OR C14H10O5 OR C12H4F8N2 OR C8H2F4O4)
D SCA

L96 0 SEA ABB=ON PLU=ON 48.150.1/RID AND L95

L97 0 SEA ABB=ON PLU=ON 48.156.1/RID AND L95

L98 1 SEA ABB=ON PLU=ON 46.150.1/RID AND L95

L99 6 SEA ABB=ON PLU=ON L95 NOT (C14H10F6N2 OR L98)

L100 60 SEA ABB=ON PLU=ON L94 NOT L95

L101 14 SEA ABB=ON PLU=ON 121-91-5/CRN AND L100
D SCA

L102 12 SEA ABB=ON PLU=ON L101 NOT SI/ELS

L103 11 SEA ABB=ON PLU=ON L102 NOT METHANONE
D SCA

L104 70 SEA ABB=ON PLU=ON L88 AND 4/NC
D SCA

L105 1 SEA ABB=ON PLU=ON L104 AND (C25H38N2)
D L16

L106 STR L16
D L6

L107 2 SEA SUB=L10 SSS SAM L106
D SCA

L108 96 SEA SUB=L10 SSS FUL L106

L109 29 SEA ABB=ON PLU=ON L108 AND 1/NC
D SCA

L110 15 SEA ABB=ON PLU=ON L109 AND (C29H32N2O3 OR C33H40N2O3
OR C14H10N2O4 OR C14H10N2O3 OR C21H16N2O3 OR C20H14N2O5S
OR C23H14F6N2O3 OR C20H14N2O4 OR C27H28N2O3 OR C23H20N2O5
OR C21H16N2O4)

L111 58 SEA ABB=ON PLU=ON L90 OR L99 OR L103 OR L105 OR L110
OR L31

D SCA L50
 L112 40 SEA ABB=ON PLU=ON L61 AND (C8H4CL2O3 OR C6H8N2O OR
 C8H4CL2O4 OR C6H8N2O2 OR C8H6O5 OR C8H6O6)
 D STR TOT
 SEL RN 1-3, 5, 9,12,17-18,22,25-27,30,36-38, 40
 L113 17 SEA ABB=ON PLU=ON (107613-98-9/BI OR 124538-56-3/BI OR
 130480-39-6/BI OR 130480-40-9/BI OR 145756-41-8/BI OR
 172028-31-8/BI OR 178064-15-8/BI OR 178064-17-0/BI OR
 188529-96-6/BI OR 281194-05-6/BI OR 339306-53-5/BI OR
 867218-68-6/BI OR 871576-14-6/BI OR 916500-95-3/BI OR
 918538-49-5/BI OR 951245-09-3/BI OR 951245-11-7/BI)
 L114 75 SEA ABB=ON PLU=ON L113 OR L111
 D SCA L31
 L115 4 SEA ABB=ON PLU=ON 119764-39-5 OR 144442-06-8 OR
 180579-38-8 OR 180579-39-9
 D SCA
 L116 3 SEA ABB=ON PLU=ON L115 NOT (C6H8N2)
 D
 E "C29H32N2O3)N"/MF
 E "(C29H32N2O3)N"/MF
 L117 2 SEA ABB=ON PLU=ON "(C29H32N2O3)N"/MF
 D SCA
 L118 1 SEA ABB=ON PLU=ON L117 NOT L116
 D L116 2
 E "(C21H30N2.C8H6O5)X"/MF
 L119 3 SEA ABB=ON PLU=ON "(C21H30N2.C8H6O5)X"/MF
 D SCA
 L120 2 SEA ABB=ON PLU=ON L119 NOT L116
 D L116 3
 E "(C12H12N2O.C8H6O5.C8H6O4)X"/MF
 L121 5 SEA ABB=ON PLU=ON "(C12H12N2O.C8H6O5.C8H6O4)X"/MF
 D SCA
 D STR
 D RN
 L122 4 SEA ABB=ON PLU=ON L121 NOT 421765-70-0
 L123 3 SEA ABB=ON PLU=ON L122 NOT L116
 L124 9 SEA ABB=ON PLU=ON (L116 OR L117 OR L118 OR L119 OR
 L120 OR L122 OR L123)
 L125 67 SEA ABB=ON PLU=ON L114 NOT L124
 SAV L124 CAM303F/A
 SAV L125 CAM303G/A

FILE 'HCAPLUS' ENTERED AT 11:34:18 ON 10 SEP 2008

L126 114 SEA ABB=ON PLU=ON L124 OR L125
 L127 24 SEA ABB=ON PLU=ON L126 AND PY<=2004 NOT P/DT
 L128 70 SEA ABB=ON PLU=ON L126 AND (PD<=20040511 OR PRD<=200405
 11 OR AD<=20040511) AND P/DT

L129 94 SEA ABB=ON PLU=ON L127 OR L128
 E UCHIDA M/AU
 L130 383 SEA ABB=ON PLU=ON ("UCHIDA M"/AU OR "UCHIDA M K"/AU OR
 "UCHIDA M M M"/AU) OR ("UCHIDA MAKAO"/AU OR "UCHIDA
 MAKATO"/AU)
 E MAKATO U/AU
 E MAKOTO U/AU
 E TOYOFUMI A/AU
 E ASANO T/AU
 L131 405 SEA ABB=ON PLU=ON "ASANO T"/AU
 E ASANO TOYOFUMI/AU
 L132 76 SEA ABB=ON PLU=ON ("ASANO TOYOFUMI"/AU OR "ASANO
 TOYOHUMI"/AU)
 E UCHIDA MAKATO/AU
 L133 477 SEA ABB=ON PLU=ON ("UCHIDA MAKATO"/AU OR "UCHIDA
 MAKI"/AU OR "UCHIDA MAKIKO"/AU OR "UCHIDA MAKIO"/AU OR
 "UCHIDA MAKIYO"/AU OR "UCHIDA MAKOTO"/AU)
 L134 1336 SEA ABB=ON PLU=ON (L130 OR L131 OR L132 OR L133)
 E NIPPON KAYAKU/CO
 E E3+ALL
 E E4+ALL
 L135 5870 SEA ABB=ON PLU=ON "NIPPON KAYAKU CO LTD"/CO
 E NIPPON KAYAKU/CO
 E E5+ALL
 L136 6067 SEA ABB=ON PLU=ON NIPPON KAYAKU CO+RT/CO
 L137 7662 SEA ABB=ON PLU=ON NIPPON KAYAKU/CS,PA
 L138 7662 SEA ABB=ON PLU=ON L137 OR L136 OR L135
 L139 8877 SEA ABB=ON PLU=ON L134 OR L138
 L140 20 SEA ABB=ON PLU=ON L139 AND L129
 D SCA TI AU
 D SCA L140 AU
 D L140 TI AU

FILE 'REGISTRY' ENTERED AT 13:33:13 ON 10 SEP 2008
 SAV TEMP L40 CAM303H/A
 D SAV

FILE 'HCAPLUS' ENTERED AT 13:39:33 ON 10 SEP 2008

SAV L129 CAM303J/A
 L141 559732 SEA ABB=ON PLU=ON (B32B OR C08G OR C09J OR H05K)/IPC,IC
 ,ICM,ICS,EPC
 L142 58 SEA ABB=ON PLU=ON L128 AND L141
 L143 210429 SEA ABB=ON PLU=ON (B32B)/IPC,IC,ICM,ICS,EPC
 L144 284426 SEA ABB=ON PLU=ON (C08G OR C09J)/IPC,IC,ICM,ICS,EPC
 L145 112529 SEA ABB=ON PLU=ON (H05K)/IPC,IC,ICM,ICS,EPC
 L146 2716 SEA ABB=ON PLU=ON L143 AND L144 AND L145

L147 3 SEA ABB=ON PLU=ON L146 AND L128
 L148 112267 SEA ABB=ON PLU=ON PRINT?(2A)?CIRCUIT? OR PCB# OR
 PRINT?(2A)?WIRING? OR PWB# OR CIRCUIT?(2A)BOARD? OR
 WIRING?(2A)BOARD?
 L149 0 SEA ABB=ON PLU=ON L148 AND L127
 L150 274678 SEA ABB=ON PLU=ON ?ADHESIVE? OR BONDING? (2A) AGENT?
 L151 0 SEA ABB=ON PLU=ON L127 AND L150
 L152 359022 SEA ABB=ON PLU=ON LAMINAT? OR LAMEL? OR (?LAYER?) (2A)
 (MULTI? OR PLURAL? OR DUAL? OR BI# OR DI#)
 L153 0 SEA ABB=ON PLU=ON L152 AND L127
 L154 13 SEA ABB=ON PLU=ON L128 AND L148
 D SCA L140 CO
 D SCA L140 TI AU
 D L140 CO
 D SCA L140 TI AU
 D L140 TI AU
 D L140 1-6 TI AU

FILE 'HCAPLUS' ENTERED AT 15:05:46 ON 10 SEP 2008
 L155 20 SEA ABB=ON PLU=ON L139 AND L129

FILE HOME

FILE STNGUIDE

FILE CONTAINS CURRENT INFORMATION.

LAST RELOADED: Sep 5, 2008 (20080905/UP).

FILE LREGISTRY

LREGISTRY IS A STATIC LEARNING FILE

NEW CAS INFORMATION USE POLICIES, ENTER HELP USAGETERMS FOR DETAILS.

FILE REGISTRY

Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES: 9 SEP 2008 HIGHEST RN 1048111-29-0

DICTIONARY FILE UPDATES: 9 SEP 2008 HIGHEST RN 1048111-29-0

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TSCA INFORMATION NOW CURRENT THROUGH July 5, 2008.

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FILE HCAPLUS

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FILE COVERS 1907 - 10 Sep 2008 VOL 149 ISS 11

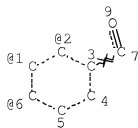
FILE LAST UPDATED: 9 Sep 2008 (20080909/ED)

HCAplus now includes complete International Patent Classification (IPC) reclassification data for the second quarter of 2008.

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

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=> d que stat l33
L33          STR
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VAR G1=2/1/6

NODE ATTRIBUTES:

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

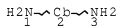
RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 11

STEREO ATTRIBUTES: NONE

=> d que stat l41

L41 STR



NODE ATTRIBUTES:

DEFAULT MLEVEL IS ATOM

GGCAT IS UNS AT 2

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

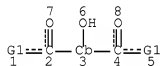
RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 3

STEREO ATTRIBUTES: NONE

=> d que stat 147

L47 STR



VAR G1=O/X

NODE ATTRIBUTES:

DEFAULT MLEVEL IS ATOM

GGCAT IS MCY UNS AT 3

DEFAULT ECLEVEL IS LIMITED

ECOUNT IS E6 C AT 3

GRAPH ATTRIBUTES:

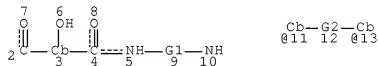
RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 8

STEREO ATTRIBUTES: NONE

=> d que stat 1106

L106 STR



VAR G1=CB/11-5 13-10

REP G2=(0-20) A

NODE ATTRIBUTES:

DEFAULT MLEVEL IS ATOM

GGCAT IS MCY UNS AT 3
DEFAULT ECLEVEL IS LIMITED
ECOUNT IS E6 C AT 3

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 12

STEREO ATTRIBUTES: NONE